

EXHIBIT 2

```
#####
# Program: needle
# Rundate: Mon Jul 31 07:00:44 2006
# Align_format: srspair
# Report_file: /ebi/externserv/old-work/needle-20060731-07004323238664.output
#####
```

```
#=====
#
# Aligned_sequences: 2
# 1: SEQ173
# 2: G_kaustophilus
# Matrix: EBLOSUM62
# Gap_penalty: 10.0
# Extend_penalty: 0.5
#
# Length: 1138
# Identity: 987/1138 (86.7%)
# Similarity: 987/1138 (86.7%)
# Gaps: 147/1138 (12.9%)
# Score: 5832.0
#
#=====
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SEQ173	1	aattccgac	9
G_kaustophil	101	aactaacagcaaccgcctcgggagtaacgctgaccggaagcgattccgac	150
SEQ173	10	atttcaattgaatcggtttattccgcttgaaaaagaaggcaagttgctcgt	59
G_kaustophil	151	atttcaattgaatcggtttattccgcttgaaaaagaaggcaagttgctcgt	200
SEQ173	60	tgatgtgaaaagaccggggagcatcgactgcaggcgcgctttttctctg	109
G_kaustophil	201	tgacgtgaaaagaccggggagcatcgactgcaggcgcgctttttctctg	250
SEQ173	110	aaatcgtgaaaaaactgccgaacaaacggtggaaatcgaaacggaagac	159
G_kaustophil	251	aaatcgtgaaaaaactgccgaacaaacggtggaaatcgaaacggaagac	300
SEQ173	160	aactttttgacgatcatccgctcggggcaactcagaattccgcctcaatgg	209
G_kaustophil	301	aactttttgacgatcatccgctcggggcaactcagaattccgcctcaatgg	350
SEQ173	210	gctaaacgccgacgaatatccgcgcctgccgcaaattgaagaagaaaacg	259
G_kaustophil	351	gctaaacgccgacgaatatccgcgcctgccgcaaattgaagaagaaaacg	400
SEQ173	260	tgtttcaaataccggctgatttattgaaaaccgtgattcggcaaacgggtg	309
G_kaustophil	401	tgtttcaaataccggctgatttattgaaaaccgtgattcggcaaacgggtg	450
SEQ173	310	ttcgcggtttctacatcggaacgcgcgcccaatcttgacaggtgtcaactg	359
G_kaustophil	451	ttcgcggtttctacatcggaacgcgcgcccaatcttgacaggtgtcaactg	500
SEQ173	360	gaaagttgaacatggcgagcttgtctgcacagcgaccgacagtcacgct	409
G_kaustophil	501	gaaagttgaacatggcgagcttgtctgcacagcgaccgacagtcacgct	550


```
#####
# Program: needle
# Rundate: Mon Jul 31 07:01:59 2006
# Align_format: srspair
# Report_file: /ebi/externserv/old-work/needle-20060731-07015859433755.output
#####

#=====
#
# Aligned_sequences: 2
# 1: SEQ173
# 2: B_cereus
# Matrix: EBLOSUM62
# Gap_penalty: 10.0
# Extend_penalty: 0.5
#
# Length: 1146
# Identity: 654/1146 (57.1%)
# Similarity: 654/1146 (57.1%)
# Gaps: 160/1146 (14.0%)
# Score: 3294.5
#
#=====

SEQ173      1                               aattccgac      9
                                     .|||.|||.
B_cereus    101 aggttgtagctacggaagaaggagttacattaacaggaagcgatgctgat 150

SEQ173      10 atttcaattgaatcggtttattccgcttgaaaaagaaggcaagttgctcgt 59
          |||||.|||||.|||||.|||.|||||.|||.|||||.|||.|||||.
B_cereus    151 atttcgattgaatcctttatcccagttgaagaggatggaaaagaaatcgt 200

SEQ173      60 tgatgtgaaaagaccggggagcatcgactgcaggcgcgctttttctctg 109
          .|||.|||.|||.|||.|||.|||.|||.|||.|||.|||.|||.
B_cereus    201 agaagtaaaacaatcaggaagtattgtttacaggcgaaatatttttagtg 250

SEQ173      110 aaatcgtgaaaaaactgccgcaacaaacgggtgaaatcgaaacggaagac 159
          |||||.|||.|||||.|||.|||.|||.|||.|||.|||.|||.
B_cereus    251 aaattgtaaaaaaattacctaaagaaactgtagaaatttctgtggaaaat 300

SEQ173      160 aactttttgacgatcatccgctcggggcactcagaattccgcctcaatgg 209
          .|||.|||.|||.|||.|||.|||.|||.|||.|||.|||.
B_cereus    301 catttgatgacaaaaataacttctgaaaatcagagtttaatttaaattgg 350

SEQ173      210 gctaaacgccgacgaatatccgcgcctgcgcgcaaattgaagaagaaaacg 259
          .|||.|||.|||.|||.|||.|||.|||.|||.|||.|||.
B_cereus    351 tttagattctgcagaatatccgttggtaccacaaattgaagaacatcatg 400

SEQ173      260 tgtttcaaatcccgctgatttattgaaaaccgtgattcggcaaacgggtg 309
          |||||.|||||.|||.|||||.|||.|||.|||.|||.|||.
B_cereus    401 tttttaaatacccaacggatttacttaacatatgatcagacaaactgta 450

SEQ173      310 ttgcgcgtttctacatcggaacgcgcgccaatcttgacaggtgtcaactg 359
          |||.|||.|||||.|||.|||||.|||.|||.|||.|||.|||.
B_cereus    451 tttgcagtttccacttctgaaacaagaccgatcttgacaggtgtaaactg 500

SEQ173      360 gaaagttgaacatggcgagcttgtctgcacagcgaccgacagtcacatcgt 409
          |||.|||.|||.|||.|||.|||.|||.|||.|||.|||.
B_cereus    501 gaaggtatataacagcgaaactaactgcattgtctacagatagccacaggt 550
```

SEQ173	410	tagccatgcgcaaaagtgaataattg-agtcg--gaaaatgaagtatcatac	456
B_cereus	551	tagctcttcgaaaagcaaaaatcgaggcattgcagatgaa-ttccaagc	599
SEQ173	457	aac-gtcgtcatccctggaaaaagtctttaatgagctcagcaaaatttttg	505
B_cereus	600	aaatgttggttatcccagggaaaagcttaaatgaattaagcaaaatttttag	649
SEQ173	506	atga--cggcaaccaccccggtggacatcgatgacagccaatcaagtgc	553
B_cereus	650	atgagtcgtgaag--aaatggtagatatcggttattacggagtatcaagtat	697
SEQ173	554	tatttaaggccgagcacctctctctctcttcccggtgcttgacgggcaac	603
B_cereus	698	tattccgtacaaaacatttattattctctcaagattgttagaaggaaat	747
SEQ173	604	tatccggagacggcccgcttgattccaacagaaagcaaaacgaccatgat	653
B_cereus	748	tatcctgtatcaactcgcttaattccagcggagagtaaaacagatatttt	797
SEQ173	654	cgtcaatgcaaaaagagtttctgcaggcaatcgaccgagcgtctcttgcttg	703
B_cereus	798	tgtaaatacaaaaagaatttttacaagcaattgatcgatccctatttag	847
SEQ173	704	ctcgagaagggaaggaacaacgcttgtaaactgacgacgcttctggagg-	752
B_cereus	848	caagagatggtcgtaataatgttgtaaaattatcaac-ttttagagcaggc	896
SEQ173	753	aatgctcgaaattttcttcgattttctcc-gagatcgggaaagt-gacggag	800
B_cereus	897	aatgctagaaattttcttcaaatccaccagaaatcgggaaagtagtagaag	946
SEQ173	801	cagctgcaaacggagctctctgaagggaagagttgaacatttcgcttcag	850
B_cereus	947	aagtt-caatgtgaaaaagtagatggagaagagttaaaaatatcttttag	995
SEQ173	851	cgcgaaatatatgatggacgcgttgcgggcgcttgatggaacagacattt	900
B_cereus	996	tgcaaaatatatgatggatgcactaaaggcattagatagtactgaga-tt	1044
SEQ173	901	caaatcagcttcactggggccatgcggccgcttctgttgccgccgcttca	950
B_cereus	1045	aagattagctttactggagcaatgagaccattcttaattcgtacggtaaa	1094
SEQ173	951	-accgattcgatgcttcagctcattttgcccgttgagaacatat	992
B_cereus	1095	tgatgaatccattattcaattaattttacgggttcgtacttactaa	1140

```
#####
# Program: needle
# Rundate: Mon Jul 31 07:03:18 2006
# Align_format: srspair
# Report_file: /eh1/extserv/old-work/needle-20060731-07031637746308.output
#####

#=====
#
# Aligned_sequences: 2
# 1: SEQ173
# 2: B_thuringiensis
# Matrix: EBLOSUM62
# Gap_penalty: 10.0
# Extend_penalty: 0.5
#
# Length: 1148
# Identity: 655/1148 (57.1%)
# Similarity: 655/1148 (57.1%)
# Gaps: 164/1148 (14.3%)
# Score: 3260.0
#
#=====

SEQ173      1                                aattccgac      9
                                     .|||.|||.
B_thuringiens 101 aagttgtcgtctacggaagaaggagttacattaacaggaagcgatgctgat 150

SEQ173      10 atttcaattgaatcgttttatccgcttgaaaaagaaggcaagttgctcgt      59
          |||||.|||||.|||||.|||||.|||||.|||||.|||||.|||||.
B_thuringiens 151 atttcgattgaatctttatccagttgaagggatggaaaagaaattgt 200

SEQ173      60 tgatgtgaaaagaccggggagcatcgactgcaggcgcgctttttctctg      109
          .|||.|||.|||.|||.|||.|||.|||.|||.|||.|||.|||.
B_thuringiens 201 agaagtaaaacaatcaggaagtattgttttacaggctaaatatttttagtg 250

SEQ173      110 aaatcgtgaaaaaactgccgcaacaaacgggtggaaa--tcgaaacggaag      157
          |||||.|||.|||||.|||||.|||.|||||.|||.|||||.|||.
B_thuringiens 251 aaattgtaaaaaattgccgaaagaaactgtgaaatttctc-tgtcgaaaa 299

SEQ173      158 acaactttttgacgatcatccgctcggggcactcagaattccgcctcaat      207
          .|||.|||.|||||.|||.|||.|||.|||.|||.|||.|||.
B_thuringiens 300 tcat-ttaatgacaaaaataacttctgggaatcagaatttaatttaaat 348

SEQ173      208 gggctaaaacgccgacgaatatccgcgcctgccgcaaattgaagaagaaaa      257
          |||.|||.|||.|||.|||.|||||.|||.|||.|||.|||.|||.
B_thuringiens 349 ggttttagattctgcagaatatccattgttaccacaaattgaagaacatca 398

SEQ173      258 cgtgtttcaaatcccggtgattttattgaaaaccgtgattccggcaaacgg      307
          .|||.|||.|||.|||.|||.|||||.|||.|||.|||.|||.|||.
B_thuringiens 399 tgtttttaagattccaacagatttacttaaacatatgatcagacaaactg 448

SEQ173      308 tgttcgccgtttctacatcggaacgcgcaccaatcttgacaggtgtcaac      357
          |||.|||.|||.|||.|||.|||||.|||.|||.|||.|||.|||.
B_thuringiens 449 tatttcgagtctccacttctgaaacaagaccaatcttgacaggtgtaaac 498

SEQ173      358 tggaaaagttgaacatggcgagcttgtctgcacagcgacgcagtcacgtcag      407
          |||||.|||.|||.|||.|||.|||.|||.|||.|||.|||.
B_thuringiens 499 tggaaaggtatataacagcgaaactaacttgattgtctacagatagtcacag 548
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SEQ173	408	cttagccatgcgcgcaagtgaaaaattga--gtc-ggaaaaatgaagtatcat	454
B_thuringiens	549	gtagctcttcgaaaaagcaaaaattgaaggtattgtagatgaa-ttccag	597
SEQ173	455	acaac-gtcgtcatccctggaaaaagtcttaatgagctcagcaaaatttt	503
B_thuringiens	598	gcaaatgttggtatttcggggaaaaagcttaaatgaattaagcaaaattct	647
SEQ173	504	ggatga--cggcaaccaccgggtggacatcgctcatgacagccaatcaagt	551
B_thuringiens	648	agatgagctgaag--aaatggtagatatcggtattacggagtatcaagt	695
SEQ173	552	gctatttaaggccgagcaccttctctcttttccggctgcttgacggca	601
B_thuringiens	696	attatccgtacaaaacatttattattcttctcaagattgtagaaggaa	745
SEQ173	602	actatccggagacggcccgcttgattccaacagaaaacgacccatg	651
B_thuringiens	746	attatcctgatacaactcgatttaattcctgcagagagtaaacagatatt	795
SEQ173	652	atcgctcaatgcaaaagagtttctgcaggcaatcgaccgagcgctccttgc	701
B_thuringiens	796	ttgtaaaatacaaaaagaattttacaagcaattgatcgctcatctctgtt	845
SEQ173	702	tgctcgagaaggaaggaacaacggttgtaaactgacgacgcttcctggag	751
B_thuringiens	846	agctagagatggtcgtaataatggttgaaaattatcaac-tttagagcag	894
SEQ173	752	g-aatgctcgaaaatttcttcgattttctcc-gagatcgggaaagt-gacgg	798
B_thuringiens	895	gcaatgctagaaaatttcttcgaattcaccagaaatcgggaaagttagtaga	944
SEQ173	799	agcagctgcaaacggagctctcttgaaggggaagagttgaacatttcgttc	848
B_thuringiens	945	agaagtt-caatgtgaaaaagtagatggagaagagttaaaaatatctttt	993
SEQ173	849	agcgcgaaatatatgatggacggttgcgggcgcttgatggaacagacat	898
B_thuringiens	994	agtgcaaaatatatgatggatgcactaaaggcattagatagtactga-aa	1042
SEQ173	899	ttcaaatcagcttcactggggccatgcggccgttctctgttgccgccgctt	948
B_thuringiens	1043	ttaagattagctttactggagcaatgagaccattcttaattcgtacggta	1092
SEQ173	949	ca-accgattcgatgcttcagctcattttgcccgtgagaacatat	992
B_thuringiens	1093	aatgatgaatccattattcaattaattttaccggttcgtactactaa	1140

```
#####
# Program: needle
# Rundate: Mon Jul 31 07:04:20 2006
# Align_format: srspair
# Report_file: /ebi/extserv/old-work/needle-20060731-07041940078774.output
#####
```

```
#####
#
# Aligned_sequences: 2
# 1: SEQ173
# 2: B_weihenstephanensis
# Matrix: EBLOSUM62
# Gap_penalty: 10.0
# Extend_penalty: 0.5
#
# Length: 1149
# Identity: 636/1149 (55.4%)
# Similarity: 636/1149 (55.4%)
# Gaps: 160/1149 (13.9%)
# Score: 3242.0
#
#####
```

SEQ173	1	aattccgac	9
B_weihensteph	101	aagttgtagcaactgaagaaggagttactttaacaggtagtgatgcagac	150
SEQ173	10	atttcaattgaatcgtttattccgcttgaaaaagaaggcaagttgctcgt	59
B_weihensteph	151	atctctatcgaaatcatttatccagtcgaagatgctggaaaagaaattgt	200
SEQ173	60	tgatgtgaaaagaccggggagcagtcgtaactgcaggcgcgctttttctctg	109
B_weihensteph	201	ggaaattgaacaatcaggaagtattattttacaagcaaaatattttagtg	250
SEQ173	110	aaatcgtgaaaaaactgcgcgaacaaacgggtggaaatcgaaacggaagac	159
B_weihensteph	251	agatcgtaaaaaaattacctaagaaactgtcgaaatttctgtggaaaat	300
SEQ173	160	aactttttgacgatcatccgctcggggcactcagaattccgcctcaaatgg	209
B_weihensteph	301	cattttatgacaaaaataaaatctggaaaatcagagttcaacttaaattgg	350
SEQ173	210	gctaaacgcgcgacgaatatccgcgcctgcgcgcaaattgaagaagaaaacg	259
B_weihensteph	351	tttagatgctgctgaatatccgttattaccacaaatcgaagaacatcatg	400
SEQ173	260	tgtttcaaatcccggtgattttattgaaaaccgtgattcggcaaacggtg	309
B_weihensteph	401	tatttaagattccaacagatttactaaagcacatgattcgtcaaacagta	450
SEQ173	310	ttcgccgtttctacatcggaacgcgcgccaatcttgacaggtgtcaactg	359
B_weihensteph	451	tttgagtttcaagttctgaaacaagacccgatcttgacaggtgtaaaactg	500

SEQ173	360	gaaagttgaacatggcgagcttgtctgcacagcgaccgacagtcacgcgt	409
B_weihensteph	501	gaagggtatataaacagcgagctaacttgattgcaacagatagtcacagac	550
SEQ173	410	tagccatgcgcgaaagtgaattga---gtcggaaaatgaag-----tat	451
B_weihensteph	551	tagcacttcgtaaaagcaaaaatcgaagggtataatattgccgatgaattt	600
SEQ173	452	catac-aacgctcgtcacccctggaaaaagtcttaatgagctcagcaaaat	500
B_weihensteph	601	caagcgaatgtcgcttattcctggtaagagcttaagtgaattaagtaaaat	650
SEQ173	501	tttgatga--cggcaaccaccgggtggacatcgatcacagccaatca	548
B_weihensteph	651	tctagatgaatctgaag--aaatggtagatatcgcttattacggagtatca	698
SEQ173	549	agtgctattttaaggccgagcaccttctctcttttcccggtgcttgacg	598
B_weihensteph	699	agtattattccgtacaaaacatttattattcttctcaagattattagaag	748
SEQ173	599	gcaactatccggagacggcccgcttgattccaacagaaagcaaaacgacc	648
B_weihensteph	749	gaaattatccagatacaacgcgtttaattccagctgaaagtaaaactgat	798
SEQ173	649	atgatcgtaaatgcaaaagagtttctgcaggcaatcgaccgagcgctcctt	698
B_weihensteph	799	atatttgtaaatacaaaagaatttttacaagcgattgatcgctgcgtcgtt	848
SEQ173	699	gcttgctcgagaaggaaggaacaacgcttggtgaaactgacgacgcttcctg	748
B_weihensteph	849	gttagcaagagatggctgtaacaacgcttggttaaattatcgacattagaac	898
SEQ173	749	gaggaatgctcgaaattttcttcgatttctcc-gagatcgggaaagtgcg	797
B_weihensteph	899	aacagatgtagagatttcttcgaatgcaccagaaatcggaaaagtagta	948
SEQ173	798	gagcagctgcaaacggagtcctcttgaagggaagagttgaacatttcgtt	847
B_weihensteph	949	gaagaggttcaatgtgaaaatgtagatggagaagaattaaaaatatcttt	998
SEQ173	848	cagcgcgaaatatatgatggacgcgttgcgggogcttgatggaacagaca	897
B_weihensteph	999	tagtgcaaaatatatgatggacgcattaaaggctttagacagtacaga-a	1047
SEQ173	898	tttcaaatcagcttcaactggggccatgcggccgcttcctggtgcgccgct	947
B_weihensteph	1048	attaaagttagttttactggagcgatgagaccgtttttaattgcacagt	1097
SEQ173	948	tca-accgattcgatgcttcagctcattttgcoggtgagaacatat	992
B_weihensteph	1098	aaatgatgattccattatccaattaattttaccagtcogtaactactaa	1146

SEQ173	408	cttagccatgcgcaaaagtgaattgagtcggaaaatgaagtatcataca	457
B_subtilis	549	tcttgcatgaagaaaggcgaaacttgatattccagaagacagatcttata	598
SEQ173	458	acgtcgatcatccctggaaaaagtcttaatgagctcagcaaaatcttgat	507
B_subtilis	599	acgtcgatgattccgggaaaaagtcttaactgaactcagcaagattttagat	648
SEQ173	508	gacggcaaccaccgggtggacatcgatgacagccaatcaagtgcatt	557
B_subtilis	649	gacaaccagggaacttgtagatcgatcatcacagaaacccaagtctgtt	698
SEQ173	558	taaggccgagcaccttctc-ttcttttcccggtgcttgacggcaactat	606
B_subtilis	699	taaag-cgaaaaacgtctgttctctcaccggtcttgacgggaattat	747
SEQ173	607	cgggagacggcccgcttgattccaacagaaagcaaacgaccatgatcgt	656
B_subtilis	748	ccagacacaaccagcctgattccgcaagacagcaaacagaaatcattgt	797
SEQ173	657	caatgcaaaagagttcttcgaggcaatcgaccgagcgtccttgcttgc	706
B_subtilis	798	gaacacaaaagaattccttcaggccattgatcgatcctcttttagcta	847
SEQ173	707	gagaagggaaggaacaacgttgtaaactgacgacgcttcttgagggaatg	756
B_subtilis	848	gagagggacgcaacaacgttgtaaaactgtccgcaaaacc-ggctgaatc	896
SEQ173	757	c-tcgaaattttcttcgattttctcc-gagatcgggaaag-tgacggagcag	803
B_subtilis	897	cattgaaattttctccaattcgcagaaatcggtaaagtgtggaagcaa	946
SEQ173	804	ctgcaaacggagtctcttgaaaggggaagagttgaacatttcgttcagcgc	853
B_subtilis	947	ttg-ttgcgatcaaatggaaggtgaggaattaaatatctcttttagtcc	995
SEQ173	854	gaaatatatgatggacgcgttgcgggcgcttgatggaacagacatttcaa	903
B_subtilis	996	aaaatatatgctggatgcactaaaggtgcttgaaggagcaga-aatacgc	1044
SEQ173	904	atcagcttcaactggggccatgcggccgttctgttgcgcccgcttcaacc	953
B_subtilis	1045	gtaagctttacaggcgcaatgagacctttcttaattcgcacgc--cgaat	1092
SEQ173	954	gat---tcgatgcttcagctcattttgcgggtgagaacatat	992
B_subtilis	1093	gatgaaacgattgtacagcttatecttctgtcagaacctattaa	1137

```

#####
# Program: needle
# Rundate: Mon Jul 31 07:09:46 2006
# Align_format: srspair
# Report_file: /ebi/extserv/old-work/needle-20060731-07094578887427.output
#####

#=====
#
# Aligned_sequences: 2
# 1: SEQ173
# 2: B_licheniformis
# Matrix: EBLOSUM62
# Gap_penalty: 10.0
# Extend_penalty: 0.5
#
# Length: 1161
# Identity: 704/1161 (60.6%)
# Similarity: 704/1161 (60.6%)
# Gaps: 193/1161 (16.6%)
# Score: 3657.5
#
#=====

SEQ173      1                                aattccgac      9
                                     .|||||.
B_licheniform 101 aaatcgtggcctctgatgaaggggtctctctgacaggcagcgattccgat 150

SEQ173      10 atttcaattgaatcgtttatccgcttgaaaaagaaggcaagtt---gct      56
          |||||.|||||.|.|.|.|.|.|.|.|.|.|.|.|.|.|.|.|.|.|.|.|.|
B_licheniform 151 atttcgattgaatcgtttatcccg---aaagaagacggcgatttagagat 197

SEQ173      57 cgttg-atgtgaaaagaccggggagcatcgtaactgcaggcgcgctttttc      105
          |||. .|.|||||.|||. .|.|||||.|||. .|.|||||.|||. .|.|||||.
B_licheniform 198 cgtgacaattgaacagccc-ggcagcattgtgcttcaagcccgcttttttc      246

SEQ173      106 tctgaaatcgtgaaaaaactgcgcgaacaaacggtggaaatcgaaacgga      155
          ..|||||.|||.|||||.|||||. ....|||.|||||.|||||. ....|
B_licheniform 247 agtgaaattgtcaaaaagctgccgatgtcaacagtggaaatcgaggttca      296

SEQ173      156 agacaactttttgacgatcatccgctcggggcactcagaattccgcctca      205
          |. .|. .|. .|. .|. .|. .|. .|. .|. .|. .|. .|. .|. .|. .|.
B_licheniform 297 aaatcaatacttaacgatcatccgctcggcgaagcagagttaacttaa      346

SEQ173      206 atgggctaaacgccgacgaatatccgcgctcggcgaattgaagaagaa      255
          |. .|. .|. .|. .|. .|. .|. .|. .|. .|. .|. .|. .|. .|. .|.
B_licheniform 347 acggtttggatgcaagcgaatatccgcttttgccgcaaattgaagagcat      396

SEQ173      256 aacgtgtttcaaatcccggtgattttattgaaaaccgtgattcggaac      305
          .|||||.|||||.|||||.|||||. .|. .|. .|. .|. .|. .|. .|. .|.
B_licheniform 397 cacgcttttcaaatccgacgatctgctgaaaaacctgatccgcaaac      446

SEQ173      306 ggtgttcgcggtttctacatcggaacgcgcccaatcttgacaggtgtca      355
          .|||. .|. .|. .|. .|. .|. .|. .|. .|. .|. .|. .|. .|. .|.
B_licheniform 447 cgtttttgcagtgtccacctcagaaacacgcccaatcttgacaggtgtaa      496

SEQ173      356 actggaaagttgaacatggc---gagcttgtctgcacagcgacagcagc      402
          |||||. .|. .|. .|. .|. .|. .|. .|. .|. .|. .|. .|. .|.
B_licheniform 497 actggaatgt--cac-tggcgggtgaattaatatgcactgcaacggatagt      543

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SEQ173	403	catcgcttagccatgcgcaaaagtgaattgag-tcgga--aatgaagt	449
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SEQ173	450	---atcatacaacgtcgtcacccctggaaaaagtottaatgagctcagca	496
B_licheniform	588	cagttcatacaatgtcgtcacccaggaaaaagcttaaccgagctcagca	637
SEQ173	497	aaattttggatgacggcaacc--acccggtggacatcgtcacgagcca	544
B_licheniform	638	aaatccttgatgac--catcaggagcttgttgatattgtgattaccgaaa	685
SEQ173	545	atcaagtgtctatttaaggccgagcaaccttctcttcttctccggctgctt	594
B_licheniform	686	cacaagtgtgtttaaaacaaaaacgttctgttttctccaggcttctt	735
SEQ173	595	gacggcaactatccggagacggcccgcttgattccaacagaaagcaaac	644
B_licheniform	736	gacggaaactatccggatacgaaccgctgattcctcaggaaagcaaac	785
SEQ173	645	gaccatgatcgtaaatgcaaaagagtttctgcaggcaatcgaccgagcgt	694
B_licheniform	786	gaacttgattgtcaataactaagggaatttctccaggcgatcgacagggtt	835
SEQ173	695	ccttgctt--gctcgagaagggaaggaacaacgttgtgaaactgacgacg	741
B_licheniform	836	c---gcttttggcgagagaaggacgaacaacgttgtgaaacttctc--cg	880
SEQ173	742	cttc--ctggaggaatgctcgaaatttcttcgatttctcc-gagatcggg	788
B_licheniform	881	cagccgccaatgagtcgatcgaaatttcttcaaactctccggaatcgga	930
SEQ173	789	aaag-tgacggagcagctgcaaacggagttctcttgaagggaagagttga	837
B_licheniform	931	aagggtgttgaaacgg-tgaatgccgagcagatcgaagggaagacttaa	979
SEQ173	838	acatttcggttcagcgcgaaatatatgatggacgcgttgccggcgcttgat	887
B_licheniform	980	agatatcctttagtcggaatatatgctggatgcccttaaagtctctgaa	1029
SEQ173	888	ggaacagacatttcaaatcagcttcaactggggccatgcggccggttctgt	937
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B_licheniform	1079	tccgtacgc--cgaatgacgattcgatcgccaattaattcttctgtcc	1126
SEQ173	985	gaacatat	992
B_licheniform	1127	ggacgtattaa	1137